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DATE MAILED: 11/17/2005

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/779,509	02/13/2004	Ali Ismail Abdel-Hadi	5853-343	8895
30448	7590 11/17/2005		EXAMINER	
-	SENTERFITT	FITZGERALD, JOHN P		
P.O. BOX 318 WEST PALM	38 BEACH, FL 33402-3188		ART UNIT PAPER NUMB	
,			2856	

Please find below and/or attached an Office communication concerning this application or proceeding.

				1/20/			
		Application No.	Applicant(s)	10			
		10/779,509	ABDEL-HADI ET AL.				
	Office Action Summary	Examiner	Art Unit				
		John P. Fitzgerald	2856				
Period fo	 The MAILING DATE of this communication or Reply 	appears on the cover sheet with the	correspondence addre	⊋SS			
WHIC - Exten after S - If NO - Failur Any re	DRTENED STATUTORY PERIOD FOR REIDEVER IS LONGER, FROM THE MAILING sions of time may be available under the provisions of 37 CFR SIX (6) MONTHS from the mailing date of this communication. period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by state to reply within the set or extended period for reply will, by state ply received by the Office later than three months after the made patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 1.1.136(a). In no event, however, may a reply be sided will apply and will expire SIX (6) MONTHS fro tute, cause the application to become ABANDON	ON. timely filed m the mailing date of this comm IED (35 U.S.C. § 133).				
Status							
2a) <u>□</u> 3) <u>□</u>	Responsive to communication(s) filed on This action is FINAL. 2b) T Since this application is in condition for allow closed in accordance with the practice under	his action is non-final. wance except for formal matters, p		nerits is			
Dispositie	on of Claims	•					
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-28</u> is/are pending in the application of the above claim(s) is/are without claim(s) is/are allowed. Claim(s) <u>1-5, 9-11, 13-17, 20-22, 24 and 26</u> Claim(s) <u>6-8, 12, 18, 19, 23,25, 27 and 28</u> is claim(s) are subject to restriction and	Irawn from consideration. is/are rejected. s/are objected to.					
Applicatio	on Papers						
9)□ 1 10)⊠ 1	The specification is objected to by the Exam The drawing(s) filed on 13 February 2004 is Applicant may not request that any objection to the Replacement drawing sheet(s) including the continuous or declaration is objected to by the	fare: a) \square accepted or b) \square object he drawing(s) be held in abeyance. So rection is required if the drawing(s) is o	ee 37 CFR 1.85(a). bjected to. See 37 CFR	1.121(d).			
Priority u	nder 35 U.S.C. § 119		•				
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
2) ☐ Notice 3) ⊠ Inform	s) of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449 or PTO/SB/0 No(s)/Mail Date 12/27/04.	4) Interview Summar Paper No(s)/Mail [08) 5) Notice of Informal 6) Other:		52)			

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DETAILED ACTION

Claim Rejections - 35 USC § 103

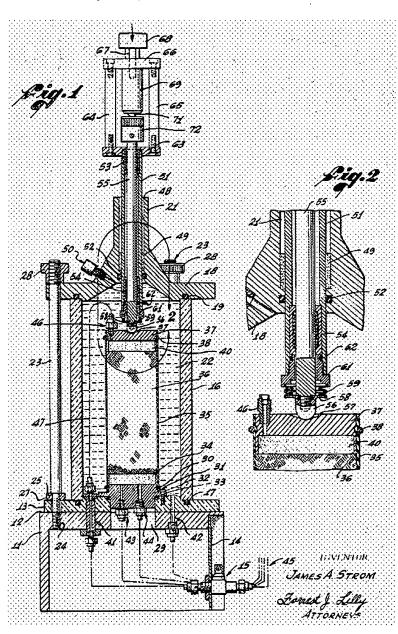
- 1. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-5, 9-11, 13-17, 20-22, 24 and 26 are rejected under 35 U.S.C. § 103(a) as being unpatentable over US 3,616,685 to Strom and US 6,935,159 to Knight et al. Strom discloses a device and method for measuring the properties associated with aerated particles (Fig. 1 below) including: an outer container (16) containing a fluid; an inner container positioned in the outer container and having at least one inlet (43, 44) at the bottom portion of the inner container and at least one outlet (46) at the top of the inner container (as recited in claims 1, 5, 16 and 17) for admitting/releasing a gas; inlet and outlet filters (34, 40) (as recited in claim 4); at least one load application device (Fig. 2) being a piston formed form a head coupled to a shaft (as recited in claims 10 and 21) passing through an outside wall (18) of the outer container and forming an end of the inner container, and a pressure sensing device (44) to be connected to the inner container (Strom: col. 4, lines 29-37) (as recited in claims 11 and 22); wherein the inner container is formed of a rubber membrane (note: latex is a form of rubber) (as recited in claims 2, 3, 14, 15); determining the load applied to the applied to the sample particulate (Strom: col. 4, lines 11-28) (as recited in claims 24 and 26). Strom does not expressly disclose a device and method for measuring properties associated with aerated particles wherein the fluid contained in the outer container is usable to determine changes in volume of aerated particles contained in the inner

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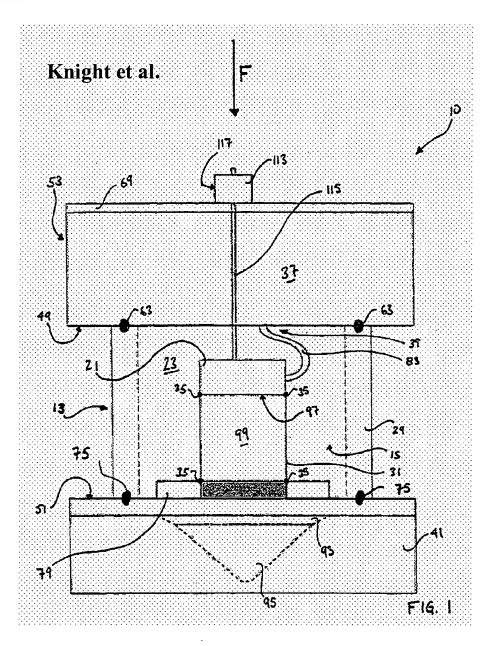
container (i.e. volumetric change) (as recited in claims 1, 13 and 24) by monitoring the change in volume or level of the fluid in the outer container; or a storage device (i.e. computer/processor) to store acquired/measured data parameters (as recited in claims 9, 20 and 26). Knight et al. disclose a device and method for measuring the properties associated with aerated particles (Figs. 1-13) having many of the recited elements, including an outer rigid container and an inner flexible/resilient container being made of latex, an inlet and outlet, application of a force/load via centrifugal means further including sensor for measuring the load applied and pressure changes as well as a change in volume of the sample particles (Knight et al.: col. 2, lines 1-28); and a computer/processor (151) for receiving/storing data and performing calculations. It would have been obvious to one having ordinary skill in the art at the time the invention was made to employ sensors measuring the volume change and a computer/processor storage device, as taught by Knight et al., modifying the device/method for measuring properties associated with aerated materials disclosed by Strom, thus providing a means to determine the degree of sample/material consolidation exhibited by the sample during the load application process and sending/storing a signal to a receiver/processor indicative of the change (Knight et al.: col. 2, lines 16-20). Note: Functional recitation(s) using the words "for" (i.e. "for measuring," and "for admitting a gas") have been given little patentable weight because they fail to add any structural limitations and thereby regarded as intended use language. A recitation of the intended use of the claimed invention must result in a structural difference between the claimed invention and the prior art. If the prior art structure is capable of performing the intended use, then it meets the claim. In re Finstewalder, 436 F.2d 1028, 168 USPQ 530 (CCPA 1971); In re Casey, 370 F.2d 576, 152 USPQ 235 (CCPA 1967) ("The manner or method in which such machine is to be utilized is not

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germane to the issue of patentability of the machine itself."); *In re Otto*, 136 USPQ 458, 459 (CCPA1963). When interpreting functional language, if the prior art is capable of performing the claimed function-even if not directly disclosed-it anticipates. *In re Schreiber*, 128 F.3d 1473, 1478, 44 USPQ2d 1429, 1432 (Fed. Cir. 1997); *In re Sinex*, 309 F.2d 488, 135 USPQ 302 (CCPA 1962). See also MPEP § 2114, 2115.



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Allowable Subject Matter

3. Claims 6-8, 12, 18, 19, 23,25, 27 and 28 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is invited to review the Prior Art recited on accompanying PTO 892 form for relevant art to the instant invention.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Fitzgerald whose telephone number is (571) 272-2843. The examiner can normally be reached on Monday-Friday from 7:00 AM to 3:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams, can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JF

11/14/2005

HEZRON WILLIAMS
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800

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